



Modified Sabouraud Chloramphenicol Agar

M1681

Modified Sabouraud Chloramphenicol Agar is a selective medium recommended for the isolation of all species of yeast and dermatophytes.

Composition**

Ingredients	Gms / Litre
Peptic digest of animal tissue	3.000
Casein enzymic hydrolysate	3.000
Papaic digest of soyabean meal	3.000
Yeast extract	2.000
Malt extract	1.000
Dextrose	19.000
Monopotassium phosphate	0.500
Disodium phosphate	0.500
Chloramphenicol	0.500
Agar	13.000
Final pH (at 25°C)	6.4±0.2

**Formula adjusted, standardized to suit performance parameters

Directions

Suspend 45.5 grams in 1000 ml distilled water. Heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 118°C for 15 minutes. Avoid overheating. Mix well and pour into sterile Petri plates.

Principle And Interpretation

Sabouraud Dextrose Agar is a general purpose medium devised by Sabouraud for the cultivation of dermatophytes (1). The low pH is favourable for the growth of fungi and dermatophytes, and slightly inhibitory to contaminating bacteria from clinical specimens (2, 3).

The addition of antibiotics, such as chloramphenicol (a broad spectrum antibiotics) is a modification designed to increase bacterial inhibition (3, 4).

Peptic digest of animal tissue, casein enzymic hydrolysate, yeast extract, papaic digest of soyabean meal and malt extract provide nitrogenous compounds. Dextrose provides an energy source.

Chloramphenicol inhibits a wide range of gram-positive and gram-negative bacteria making the medium selective for fungi. Phosphate buffers the medium.

Quality Control

Appearance

Cream to yellow homogeneous free flowing powder

Gelling

Firm, comparable with 1.3% Agar gel

Colour and Clarity of prepared medium

Light amber coloured clear to slightly opalescent gel forms in Petri plates

Reaction

Reaction of 4.55% w/v aqueous solution at 25oC. pH : 6.4±0.2

pH

6.20-6.60

Cultural Response

M1681: Cultural characteristics observed after an incubation at 25-30°C for 48-72 hours (for Trichophyton species incubate for 7 days).

Organism	Inoculum (CFU)	Growth	Recovery
Cultural Response			
<i>Trichophyton rubrum</i> ATCC 28191	50-100	luxuriant	
* <i>Aspergillus brasiliensis</i> ATCC 16404	50-100	luxuriant	
<i>Candida albicans</i> ATCC 10231	50-100	luxuriant	>=50%
<i>Escherichia coli</i> ATCC 25922	>=10 ³	inhibited	0%
<i>Lactobacillus casei</i> ATCC 9595	>=10 ³	inhibited	0%
<i>Saccharomyces cerevisiae</i> ATCC 9763	50-100	luxuriant	>=50%

Key : * - Formerly known as *Aspergillus niger*

Storage and Shelf Life

Store between 15-25°C in tightly closed container and the prepared medium at 2 - 8°C. Use before expiry date on the label.

Reference

1. Sabouraud K., 1892, Ann. Dermatol. Syphilol., 3:1061.
2. Ajello L. , Georg L. K., Kaplan W. and Kaufman L., 1963, Laboratory Manual for Medical Mycology, DHEW Publication No. 994, US Govt. Printing Office, Washington, D.C.
3. Kwon-Chung and Bennet, 1992, Medical Mycology, Lea and Febiger, Philadelphia, Pa.
4. Murray P. R., Baron E. J., Pfaller M. A., Tenover F.C. and Tenover F.C. and Tenover R. H., (Ed), 1995, Manual of Clinical Microbiology, 6th Ed., American Society for Microbiology, Washington, D.C.

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